1966 VOL. 44.

ANNALES MEDICINAE EXPERIMENTALIS ET BIOLOGIAE FENNIAE

EDITORES: K. O. RENKONEN
T. U. KOSUNEN
A. TIILIKAINEN

REDACTORES: O. ERÄNKÖ
K. HARTIALA
E. MUSTAKALLIO
U. UOTILA
A. VARTIAINEN
A. WILSKA
A. I. VIRTANEN

HELSINKI

INDEX

Vol. 44

ABERCROMBIE, M., and HEAYSMAN, J. E. M.: The Directional Movement of Fibroblasts Emigrating from Cultured Explants 161

AHTEE, LIISA: 5-Hydroxytryptamine Release from Blood Platelets and Haemolysis of Red Blood Cells of Rabbit Induced by Phenothiazines and Related Compounds 431

AHTEE, LIISA: Effect of Some Phenothiazines on the Metabolism of Red Blood Cells of Rabbit 453

AHTEE, LIISA: Surface Activity of Phenothiazines and Related Compounds 459

AHTEE, LIISA, and MATTILA, M.: Effect of Ganglionic Stimulants and Sympatholytic Drugs on White Mice 388

AIRAKSINEN, M. M., MUSTALA, O., and TORSTI, P.: Effects of Some Biogenic Amines on the Blood Pressure of Pargyline-Treated Rabbits 376

BERGLUND, B., KORTEKANGAS, A. E., and LAURÉN, P.: Experimental Inoculation of Guinea Pig's Middle Ear with Respiratory Syncytial Virus 523

CAMPBELL, J. B., and COLTER, J. S.: Enhancement and Inhibition by Anionic Polymers of Plaque Development by a Variant of Mengo Encephalomyelitis Virus 282

CANTELL, K., SAKSELA, E., and AULA, P.: Virological Studies on Chromosome Damage of HeLa Cells Induced by Myxoviruses 255

CLARK, A. M., and ELLEM, K. A. O.: A Correlated Morphological and Functional Study of the Effects of Actinomycin D on HeLa Cells, II. The Selective Effects of Low Concentrations on the Rapidly Labeled Types of RNA Separated by Column Chromatography 100

DEFENDI, V., and TAGUCHI, F.: Studies with the Complement Fixing Antigen Induced by Polyoma Virus 232

DUPLAN, J. F., and JAHKOLA, M.: The Effect of Delayed Isogenic Restoration on the Survival of X-Irradiated Mice 326

GIRARDI, A. J., WEINSTEIN, D., and MOORHEAD, P. S.: SV_{40} Transformation of Human Diploid Cells 242

GWATKIN, R. B. L., and MECKLEY, P. E.: Chromosomes of the Mouse Blastocyst Following Its Attachment and Outgrowth in vitro 125

GYLLENBERG, H. G., THELESTAM, MONICA, and CARLBERG, GUNNEL: Spectrophotometric Evaluation of Streptomycetes Pigments 77

HALKKA, O., and HEINONEN, LIISA: Radioautographic Studies on the Gonads of Acheta Domesticus (L.) 120

HAUGHTON, G.: The Relationship between Free Coagulase and Staphylococcal Pathogenicity 307

HÄYRY, P., MYLLYLÄ, G., SAXÉN, E., and PENTTINEN, K.: The Inhibitory Mechanism of Serum on the Attachment of HeLa Cells on Glass 166

HELLSTRÖM, K. E., and HELLSTRÖM, INGA: Allogeneic Inhibition in vitro 177

HIRVONEN, J. I., KARLSSON, L. K. J., and VIRTANEN, K. S. I.: Inhibition of the Secretory Function of the Hypothalamo-Hypophyseal System by Ethanol in the Rat 52

HYYPPÄ, M., KORHONEN, L. K., and KORHONEN, ELSA: Electrophoretic Separation of Carbonic Anhydrase and Naphthyl Esterase Activities 63

IKKALA, E., MYLLYLÄ, G., and SARAJAS, H. S. S.: Platelet Adhesiveness and ADP-Induced Platelet Aggregation in Exercise 88

JÄÄSKELÄINEN, A. J.: Phosphorylase Activity in Myocardial Infarction and Its Post-Mortem Demonstrability in the Rat 541

JÄRVINEN, MARKETTA, JÄRVINEN, A., and TORSTI, P.: Effect of Reserpine on Heart Rate and Blood Pressure During Exercise 408

JUDAH, J. D., AHMED, K., and MCLEAN, A. E. M.: Cation Changes Following Liver Injury Due to Carbon tetrachloride 338
KÄÄRIÄINEN, L., PALOHEIMO, J., KLEMOLA, E., MÄKELÄ, T., and KOIVUNIEMI, A.: Cytomegalovirus — Mononucleosis 297
KÄRKI, N. T., and LAHOVAARA, SALME: Identification and Assay of 5-Hydroxytryptamine in Brain and Intestine of Lower Vertebrates 419
KERPPOLA, W.: Oxidative Phosphorylation, Catalase and Peroxidase in Mitochondria from Normal and Leukemic Human Leukocytes and from Chloroma 563
KERPPOLA, W.: Oxidative and Glycolytic Phosphorylation and Lactic Dehydrogenase Isoenzymes in Neoplastic Tissue 567
KLINGE, E., MATTILA, M. J., PENTTILÄ, O., and JUKARAINEN, E.: Influence of Drugs on Vasoactive Peptides and Amines in Perfused Human Placenta 369
KOHONEN, J., and TOIVONEN, S.: Observations of Nucleic Acid Synthesis in Isolated T r i t u r u s-Ectoderm Induced by Heterogenous Inductors 117
KOSKIMIES, O., and SAXÉN, L.: Studies on Kidney Tubulogenesis, IV. Lactic Dehydrogenase Isozymes in the Development of Mouse Metanephrogenic Mesenchyme in vitro 151
KOSUNEN, T. U., and KÄÄRIÄINEN, L. J.: Studies on Circulation and Elimination of Viruses in the Guinea Pig 32
KRITCHEVSKY, D., and HOWARD, BARBARA V.: The Lipids of Human Diploid Cell Strain WI-38 343
KUMENTO, A., KARI, ANNIKKI, HOLLMÉN, T., and KULONEN, E.: On the Intracellular Synthesis of Collagen 58
LAHTI, A., and SAUKKONEN, J. J.: Immunodiffusion Analysis of Subcellular Fractions of Escherichia Coli 216
LANDY, M.: Cytodynamics of Immune Response Produced in Regional Lymph Nodes by Salmonella Somatic Polysaccharide 201
LAPINLEIMU, KAISA: Hepatitis Associated with Echo Virus, Type 6 302
LAURÉN, P., and HOLMBERG, B.: Experimental Chronic Gastric Ulcer in the Rat. I 40
LAGERSPETZ, K. Y. H.: Temperature Relations of Oxygen Consumption and Motor Activity in Newborn Mice 71
LAGERSPETZ, K. Y. H., AUVINEN, LEILA, and TIRRI, R.: The Postnatal Development of the Metabolic Response to Adrenaline in Mice 67
LAIHO, K., and UOTILA, U.: Demonstration of Fibrin in Subcutaneous Haemorrhages 538
LAITINEN, O., UITTO, J., HANNUKSELA, M., and MUSTAKALLIO, K. K.: Increased Soluble Collagen Content of Affected and Normal-Looking Skin in Dermatomyositis, Lupus Erythematosus and Scleroderma 507
LAURÉN, P., and HOLMBERG, B.: Experimental Chronic Gastric Ulcer in the Rat. II 44
LEPPÄNEN, V., PAASONEN, M. K., and PELTOLA, P.: Excretion of 5-Hydroxyindoleacetic Acid Conjugates in Neurocirculatory Asthenia and after Injection of 5-Hydroxytryptamine 424
MÄKELÄ, P. HELENA, and MÄKELÄ, O.: Salmonella Antigen 12_{a}: Genetics of Form Variation 310
MATTILA, M., and AIRAKSINEN, M. M.: Effect of Cigar Smoke and Nicotine on the 5-Hydroxytryptamine Content in Guinea-Pig Tissues 384
MATTILA, M., and TAKKI, S.: Metabolic Effects of Anthelmintic Drugs on the Cat's Tapeworm in vitro 415
MATTILA, M., and TORSTI, P.: Effect of Monoamine Oxidase Inhibitors and Some Related Compounds on Lipid Metabolism in Rat 397
MIETTINEN, H., ELLEM, K. A. O., and SAXEN, L.: Studies on Kidney Tubulogenesis, VII. The Response of RNA Synthesis of Mouse Metanephrogenic Mesenchyme to an Inductive Stimulus 109
MING, SI-CHUN, KLEIN, EVA, and KLEIN, G.: Inhibitory Effect of Lymphocytes on DNA Synthesis of Target Cells in vitro 191
MÖLLER, G., and MÖLLER, ERNA: Growth Inhibition by Interaction between Allogeneic Cells 181

MUSTALA, O. O., and JOUNELA, A. J.: Influence of Pargyline on the Toxicity of Morphine and Pethidine in Mice 395
MYLLYLÄ, G., HÄYRY, P., PENTTINEN, K., and SAXÉN, E.: Serum Lipoproteins in Primary Cell Attachment and Growth Behaviour of Cells on Glass 171
NEVANLINNA, H. R.: ABO Protection in Rh Immunization 318
NIKKILÄ, E. A., KEKKI, M., and OJALA, KAARINA: Kinetic Analysis of Triglyceride Metabolism in Single Rats 348
NUORTEVA, P., and VESIKARI, T.: The Synanthropy of Blowflies (Diptera, Calliphoridae) on the Coast of the Arctic Ocean 544
PALKAMA, A., HOPSU, V., TAKKI, S., and TAKKI, KIRSTI: Children's Age and Stature Estimated from Femur Diameter 86
PAUCKER, K., and BOXACA, M.: Nonresponsiveness of L Cells to the Induction of Interferon 274
PIHA, R. S., CUÉNOD, M., and WAELSCH, H.: The Effect of Cortisone on the Metabolism of Histones and Other Nuclear and Cytoplasmic Proteins in Brain and Liver 553
PISPA, J., and HUTTUNEN, M.: In vitro Incorporation of ^{14}C-Riboflavin into Flavin Adenine Dinucleotide in Rat Red Cells 504
POHTO, P., and AHTEE, LIISA: Effect of Atropine, Methylatropine, Methylscopolamine and Pilocarpine on Salivary Secretion and Heart Rate in Man 411
PONTEN, J., and MACPHERSON, I.: Interference with Rous Sarcoma Virus Focus Formation by a Mycoplasmalike Factor Present in Human Cell Cultures 260
RENKONEN, K. O.: The Mothers of Twins and Their Fertility 322
RENKONEN, K. O.: Mothers of Several Pairs of Twins 531
RENKONEN, O.: Gas-Liquid Chromatography of 1,2-Diglyceride Acetates Derived from Ox-Brain Phosphatidyl Ethanolamines 356
RÉVÉSZ, L., and MODIG, H.: Effect of X-Irradiation on the Cellular Sulphydryl Content 333
RIEKKINEN, P. J.: Rat Submandibular Gland Proteases, as Influenced by Diurnal Rhythm, Feeding, Age, Sex and Isoprenaline Treatment 549
RUOSLAHTI, E., and TALLBERG, TH.: Studies on the Purification of the Human Serum Group Specific Component 1
SALO, O. P., SOMER, T., AHO, K., and CANTELL, K.: Studies of False Positive Serological Tests for Syphilis Following Smallpox Vaccination 304
SAXÉN, L.: Tapani Vainio: An Appreciation 93
SCHEININ, T. M., KALLIO, V., and LINNA, M. I.: Direct Current Countershock as a Cause of Ventricular Fibrillation in Dogs 74
SCHEININ, T. M., LINNA, M. I., and KALLIO, V.: Effect of Digitalis on Ventricular Fibrillation after Direct Current Countershock in Dogs 515
SCHEININ, T. M., LINNA, M. I., and LEHTINEN, E.: Jejunal and Colic Interposition after Upper Gastrectomy in the Dog 510
SCHEININ, T. M., and VILJANTO, J.: Bursting Pressure of Healing Gastrointestinal Wounds in the Rat 49
SEPPÄLÄ, M., RUOSLAHTI, E., and TALLBERG, TH.: Genetical Evidence for Maternal Origin of Amniotic Fluid Proteins 6
SIMONS, K., KVIST, G., and SAURÉN-LINDFORS, MARIA: The Effect of Purified Vitamin B_{12} Binding Proteins on the Uptake of Vitamin B_{12} in Tissues 361
SIVULA, A., and LEHTONEN, T.: A Method for Studying the Spontaneous Passage of Experimental Ureteral Concrements in Rabbits 519
SJÖGREN, H. O.: Tumor Specific Antigens in Viral Neoplasms and in Unrelated Virus Infected Tumors 227
SOLATUNTURI, E., and PAASONEN, M. K.: Intracellular Distribution of Monoamine Oxidase, 5-Hydroxytryptamine and Histamine in Blood Platelets of Rabbit 427
STRANDER, H., and CANTELL, K.: Production of Interferon by Human Leukocytes in vitro 265
SUURMAA, SIRKKA: Antibody Production by Primed Restimulated Adult Spleen Cells Transferred to Neonatal and Adult Recipients 29

TÄHTI, E.: Increase of Diagnostic Information in Pulsed Cineradiography 81
TALLBERG, TH., and ELY, CH. A.: An Analysis of Hyperimmune Antiserum to Sheep Luteinizing Hormone. I 8
TALLBERG, TH., and ELY, CH. A.: An Analysis of Hyperimmune Antiserum to Sheep Luteinizing Hormone. II 17
TALLBERG, TH., and KOSUNEN, T. U.: Detection of an Organ Specific Protein in the Rat Thymus 24
TALLBERG, TH., KOSUNEN, T. U., RUOSLAHTI, E., and EHNHOLM, C.: Detection of an Organ Specific Protein in the Human Thymus 221
TAMMISTO, T., and AIRAKSINEN, M.: Effect of Some Anaesthetics on the Increase of Serum Creatine Kinase Activity in Cats by Depolarising Agents 404
THORELL, B., and RAUNICH, L.: Microspectrophotometric Observations on Erythrocyte Development in the Chick Embryo 131
TOIVONEN, S., and SAXÉN, L.: Late Tissue Interactions in the Segregation of the Central Nervous System 128
TORSTI, P., and AIRAKSINEN, M. M.: 5-Hydroxytryptamine and the Toxicity of k-Strophanthoside 382
TORSTI, P., and MATTILA, M.: Effect of Some Anti-Inflammatory Agents on Plasma Free Fatty Acid Concentration 401
VAINIO, T.: Bibliography 97
VAPAATALO, H. I., AHTEE, LIISA, and PAASONEN, M. K.: Release of Adrenaline and Noradrenaline by Some Phenothiazines from the Bovine Adrenal Gland 464
WARTIOVAARA, J.: Studies on Kidney Tubulogenesis, V. Electron-Microscopy of Basement Membrane Formation in vitro 140
WARTIOVAARA, J.: Cell Contacts in Relation to Cytodifferentiation in Metanephrogenic Mesenchyme in vitro 469
WEISS, L., and CLEMENT, K.: Deformability of Murine Ascites Sarcoma 37 Cells 155
WICZELL, H.: The Rise and Fall of 19S Immunological Memory against Sheep Red Cells in the Mouse 209
WIKTOR, T. J., KAPLAN, M. M., and KOPROWSKI, H.: Rabies and Lymphocytic Choriomeningitis Virus (LCMV) 290
ZWILLING, E.: Cartilage Formation from So-Called Myogenic Tissue of Chick Embryo Limb Buds 134

SUPPLEMENTUM 1

SALO, O. P.: Studies of Heteroagglutination in Human Sera

SUPPLEMENTUM 2

LUOMANMÄKI, K.: Studies on the Metabolism of Carbon Monoxide

SUPPLEMENTUM 3

HEINONEN, J.: Influence of Some Drugs on Toxicity and Rate of Metabolism of Lidocaine and Mepivacaine

SUPPLEMENTUM 4

MÄNTYJÄRVI, R.: Adenovirus Infections in Servicemen in Finland

SUPPLEMENTUM 5

KIVALO, INKERI: Effect of Some Anesthetic Agents on Diuresis and Hypothalamo-Hypophysial Neurosecretion in the Rat

SUPPLEMENTUM 6

TUOMI, J.: Studies in the Epidemiology of Bovine Tick-Borne Fever in Finland

SUPPLEMENTUM 7

MUSTAKALLIO, K. K.: Antistaphylolysin (ASta) Level of the Blood in Relation to Barrier Function of the Skin

SUPPLEMENTUM 8

HÄYRY, P.: The Rôle of Factors in Fresh Serum in the Attachment and Growth of HeLa Cells on Glass

SUPPLEMENTUM 9

PENTTILÄ, O.: Acetylcholine, Biogenic Amines and Enzymes Involved in Their Metabolism in Penile Erectile Tissue

SUPPLEMENTUM 10

RENKONEN, O.-V.: Serum Lipids of Labouring Mothers and Newborn Babies

SUPPLEMENTUM 11

PENTTILÄ, I. M.: Effect of Insulin, Chlorpropamide and Tolbutamide on the Metabolism of Branched Chain Amino Acids

SUPPLEMENTUM 12

HUTTUNEN, J. K.: Neuraminic Acid-Containing Oligosaccharides of Human Urine